



TITLE: TRANSGENIC CIRCULATING ENDOTHELIAL CELLS INVENTORS NAME: Robert P. Hebbel et al.

SERIAL NO.: 09/865,022

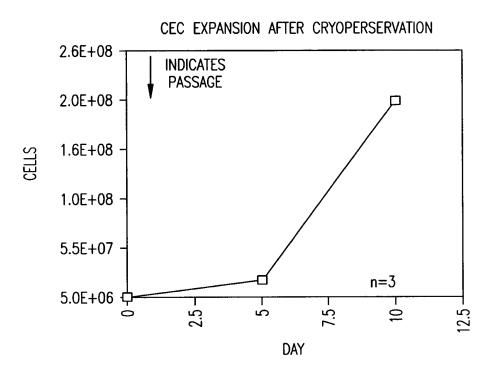


FIG. 2

3/13

iti/III/SQ/egfp, HF8SQgfp.gp, original HB- with B-domain SQ insert based on Lind t al, Bur J Biochem, 232, p21 prim r sequence, containing eGFP protein s qu nc \$

ATGCAAATAGAGCTCTCCACCTGCTTCTTTCTGTGCCTTTTGCGAT

AGTGCCACCAGAAGATACTACCTGGGTGCAGTGGAACTGTCATGG
GACTATATGCAAAGTGA

TCTCGGTGAGCTGCCTGTGGACGCAAGATTTCCTCCTAGAGTGCC

AAAATCTTTTCCATTCAA CACCTCAGTCGTGTACAAAAAGACTCTGTTTGTAGAATTCACGGTT

TAAGCCAAGGCCACCCTGGATGGGTCTGCTAGGTCCTACCATCCA GGCTGAGGTTTATGATAC

CACCTTTTCAACATCGC

AGTGGTCATTACACTTAAGAACATGGCTTCCCATCCTGTCAGTCTTCAGTCTTCAGTCTTTCAGTCTTTGGTGTGTTATCC

TACTGGAAAGCTTCTGAGGGAGCTGAATATGATGATCAGACCAGT

TGATAAAGTCTTCCCTGGTGGAAGCCATACATATGTCTGGCAGGTC CTGAAAGAGAATGGTCC

AATGGCCTCTGACCCACTGTGCCTTACCTACTCATATCTTTCTCAT
GTGGACCTGGTAAAAGA

CTTGAATTCAGGCCTCATTGGAGGCCCTACTAGTATGTAGAGAAGG GAGTCTGGCCAAGGAAA

AGACACAGACCTTGCACAAATTTATACTACTTTTTGCTGTATTTGA TGAAGGGAAAGTTGGC

AAAATGCACAGTCAATGGTTATGTAAACAGGTCTCTGCCAGGT CTGATTGGATGCCACAG

GAAATCAGTCTATTGGCATGTGATTGGAATGGGCACCACTCCTGA AGTGCACTCAATATTCCT

CGAAGGTCACACATTTCTTGTGAGGAACCATCGCCAGGCGTCCTT GGAAATCTCGCCAATAAC

TITCCTTACTGCTCAAACACTCTTGATGGACCTTGGACAGTTTCTA
CTGTTTTGTCATATCTCT

TCCCACCAACATGATGGCATGGAAGCTTATGTCAAAGTAGACAGC TGTCCAGAGGAACCCCA

ACTACGAATGAAAATAATGAAGAAGCGGAAGACTATGATGATGA
TCTTACTGATTCTGAAA

TGGATGTGGTCAGGTTTGATGACAACTCTCCTTCCTTTATCCA
AATTCGCTCAGTTGCCA

AGAAGCATCCTAAAACTTGGGTACATTACATTGCTGCTGAAGAGG AGGACTGGGACTATGCT

CCCTTAGTCCTCGCCCCGATGACAGAGTTATAAAAGTCAATATT TGAACAATGGCCCTCAG

CGGATTGGTAGGAAGTACAAAAAAGTCCGATTTATGGCATACACA

GATGAAACCTTTAAGAC TCGTGAAGCTATTCAGCATGAATCAGGAATCTTGGGACCTTTACTT

TATGGGGAAGTTGGAGA CACACTGTTGATTATATTTAAGAATCAAGCAAGCAGACCATATAA

CATCTACCCTCACGGAAT
CACTGATGTCCGTCCTTTGTATTCAAGGAGATTACCAAAAGGTGTA
AAACATTTGAAGGATTT

TCCAATTCTGCCAGGAGAAATATTCAAATATAAATGGACAGTGAC



4/13

TGTAGAAGATGGGCCAA

CTARATCAGATCCTCGGTGCCTGACCCGCTATTACTCTAGTTTCGT
TAATATCGAGAGAGATC

TAGCTTCAGGACTCATTGGCCCTCTCCTCATCTGCTACAAGAATC
TGTAGATCAAAGAGGAA

ACCAGATAATGTCAGACAAGAGGGAATGTCATCCTGTTTTCTGTATT TGATGAGAACCGAAGCT

GGTACCTCACAGAGAATATACAACGCTTTCTCCCCAATCCAGCTG GAGTGCAGCTTGAGGATC

CAGAGTTCCAAGCCTCCAACATCATGCACAGCATCAATGGCTATG
TTTTTGATAGTTTGCAGT

TGTCAGTTTGTTTGCATGAGGTGGCATACTGGTACATTCTAAGCAT TGGAGCACAGACTGACT

TCCTTTCTCTCTCTGGATATACCTTCAAACACAAAATGGTC
TATGAAGACACACTCAC

CCTATTCCCATTCTCAGGAGAAACTGTCTTCATGTCGATGGAAAAC CCAGGTCTATGGATTCT

GGGGTGCCACAACTCAGACTTTCGGAACAGAGGCATGACCGCCTT ACTGAAGGTTTCTAGTTG

TGACAAGAACACTGGTGATTATTACGAGGACAGTTATGAAGATAT
TTCAGCATACTTGCTGAG

TAAAAACAATGCCATTGAACCTAGG

AGCTTCTCTCAGAATATGGTGAGCAAGGGCGAGGAGC

TGTTCACCGG GGTGGTGCCC

ATCCTGGTCG AGCTGGACGG CGACGTAAAC GGCCACAAGT

TCAGCGTGTC CGGCGAGGGC

GAGGGCGATG CCACCTACGG CAAGCTGACC CTGAAGTTCA

TCTGCACCAC CGGCAAGCTG

CCCGTGCCCT GGCCCACCCT CGTGACCACC CTGACCTACG

GCGTGCAGTG CTTCAGCCGC

TACCCCGACC ACATGAAGCA GCACGACTTC TTCAAGTCCG

CCATGCCCGA AGGCTACGTC

CAGGAGCGCA CCATCTTCTT CAAGGACGAC GGCAACTACA

AGACCCGCGC CGAGGTGAAG

TTCGAGGGCG ACACCCTGGT GAACCGCATC GAGCTGAAGG

GCATCGACTT CAAGGAGGAC

GGCAACATCC TGGGGCACAA GCTGGAGTAC AACTACAACA

GCCACAACGT CTATATCATG

GCCGACAGC AGAAGAACGG CATCAAGGTG AACTTCAAGA

TCCGCCACAA CATCGAGGAC

GGCAGCGTGC AGCTCGCCGA CCACTACCAG CAGAACACCC

CCATCGGCGA CGGCCCCGTG

CTGCTGCCCG ACAACCACTA CCTGAGCACC CAGTCCGCCC

TGAGCAAAGA CCCCAACGAG

AAGCGCGATC ACATGGTCCT GCTGGAGTTC GTGACCGCCG

CCGGGATCAC TCTCGGCATG

GACGAGCTGT ACAAGTATCCACCAGTCTTGAAACGCCATCAACGG

GAAATAACTCGTACTACTCT

TCAGTCAGATCAAGAGG

AGGATGAAAATCAGAGCCCCCGCAGCTTTCAAAAGAAAACACGAC ACTATTTTATTGCTGCA

GTGGAGAGGCTCTGGGATTATGGGATGAGTAGCTCCCCACATGTT



5/13

CTAAGAAACAGGGCTCA

GAGTGGCAGTGTCCCTCAGTTCAAGAAAGTTGTTTTCCAGGAATTT ACTGATGGCTCCTTTAC

TCAGCCCTTATACCGTGGAGAACTAAATGAACATTTGGGACTCCT GGGGCCATATATAAGAG

CAGAAGTTGAAGATAATATCATGGTAACTTTCAGAAATCAGGCCT CTCGTCCCTATTCCTTCT

ATTCTAGCCTTATTTCTTATGAGGAAGATCAGAGGCAAGGAGCAG AACCTAGAAAAAACTTT

GTCAAGCCTAATGAAACCAAAACTTACTTTTGGAAAGTGCAACAT

AGATGAGTTTGACTGCAAAGCCTGGGCTTATTTCTCTGATGTTGAC CTGGAAAAAGATGTGCA

CTCAGGCCTGATTGGACCCCTTCTGGTCTGCCACACTAACACACTG
AACCCTGCTCATGGGAG

ACAAGTGACAGTACAGGAATTTGCTCTGTTTTTCACCATCTTTGAT GAGACCAAAAGCTGGTA

CTTCACTGAAAATATGGAAAGAAACTGCAGGGCTCCCTGCAATAT CCAGATGGAAGATCCCA

CTTTTAAAGAGAATTATCGCTTCCATGCAATCAATGGCTACATAAT GGATACACTACCTGGCT

TAGTAATGGCTCAGGATCAAAGGATTCGATGGTATCTGCTCAGCA TGGGCAGCAATGAAAAC

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GCACTGTACAATCTCTATCCAGGTGTTTTTTGAGACAGTGGAAATGT TACCATCCAAAGCTGGA

ATTTGGCGGGTGGAATGCCTTATTGGCGAGCATCTACATGCTGGG ATGAGCACACTTTTTCTG

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ATTACAGCTTCAGGACAATATGGACAGTGGGCCCAAAGCTGGCCAGACTTCATTATTCCGG

ATCAATCAATGCCTGGAGCACCAAGGAGCCCTTTTCTTGGATCAA GGTGGATCTGTTGGCACC

AATGATTATTCACGGCATCAAGACCCAGGGTGCCCGTCAGAAGTT CTCCAGCCTCTACATCTC

TCAGTTTATCATCATGTATAGTCTTGATGGGAAGAAGTGGCAGACT
TATCGAGGAAATTCCAC

TGGAACCTTAATGGTCTTCTTTGGCAATGTGGATTCATCTGGGATA
AAACACAATATTTTTTAA

CCCTCCAATTATTGCTCGATACATCCGTTTGCACCCAACTCATTAT AGCATTCGCAGCACTCTT

CGCATGGAGTTGATGGGCTGTGATTTAAATAGTTGCAGCATGCCA TTGGGAATGGAGAGTAA

AGCAATATCAGATGCACAGATTACTGCTTCATCCTACTTTACCAAT ATGTTTGCCACCTGGTC

TCCTTCAAAAGCTCGACTTCACCTCCAAGGGAGGAGTAATGCCTGGAGACCTCAGGTGAATA

ATCCARAGAGTGGCTGCAAGTGGACTTCCAGAAGACAATGAAAG TCACAGGAGTAACTACT

CAGGGAGTAAAATCTCTGCTTACCAGCATGTATGTGAAGGAGTTC CTCATCTCCAGCAGTCAA

GATGGCCATCAGTGGACTCTCTTTTTTCAGAATGGCAAAGTAAAG



6/13

GTTTTTCAGGGAAATCAA
GACTCCTTCACACCTGTGGTGAACTCTCTAGACCCACCGTTACTGA
CTCGCTACCTTCGAATT
CACCCCCAGAGTTGGGTGCACCAGATTGCCCTGAGGATGGAGGTT
CTGGGCTGCGAGGCACA
GGACCTCTACTGA*

FIG. 3D



7/13

HSQREMEO

ATGCAAATAGAGCTCTCCACCTGCTTCTTTCTGTGCCTTTTGCGATTCTGCTTTAGTGCCACCA GAAGATACTACCTGGGTGCAGTGGAACTGTCATGGGACTATATGCAAAGTGATCTCGGTGAGCT GCCTGTGGACGCAAGATTTCCTCCTAGAGTGCCAAAATCTTTTCCATTCAACACCTCAGTCGTG TACAAAAAGACTCTGTTTGTAGAATTCACGGTTCACCTTTTCAACATCGCTAAGCCAAGGCCAC CCTGGATGGGTCTGCTAGGTCCTACCATCCAGGCTGAGGTTTATGATACAGTGGTCATTACACT TAAGAACATGGCTTCCCATCCTGTCAGTCTTCATGCTGTTGGTGTATCCTACTGGAAAGCTTCT GTGCCTTACCTACTCATATCTTTCTCATGTGGACCTGGTAAAAGACTTGAATTCAGGCCTCATT GAACCCTACTAGTATGTAGAGAGGGAGTCTGGCCAAGAGACACAGACCTTGCACAAT TTATACTACTTTTTGCTGTATTTGATGAAGGGAAAAGTTGGCACTCAGAAACAAGAACTCCTT GATGCAGGATAGGGATGCTGCATCTGCTCGGGCCTGAAAATGCACACAGTCAATGGTTAT GTAAACAGGTCTCTGCCAGGTCTGATTGGATGCCACAGGAAATCAGTCTATTGGCATGTGATTG GAATGGGCACCACTCCTGAAGTGCACTCAATATTCCTCGAAGGTCACACATTTCTTGTGAGGAA CCATCGCCAGGCGTCCTTGGAAATCTCGCCAATAACTTTCCTTACTGCTCAAACACTCTTGATG GACCTTGGACAGTTTCTACTGTTTTGTCATATCTCTTCCCACCAACATGATGGCATGGAAGCTT ATGTCAAAGTAGACAGCTGTCCAGAGGAACCCCAACTACGAATGAAAATAATGAAGAGAGCGGA CCTTCCTTTATCCAAATTCGCTCAGTTGCCAAGAAGCATCCTAAAACTTGGGTACATTACATTG AAGTCAATATTTGAACAATGGCCCTCAGCGGATTGGTAGGAAGTACAAAAAGTCCGATTTATG GCATACACAGATGAAACCTTTAAGACTCGTGAAGCTATTCAGCATGAAATCAGGAATCTTGGGAC **ATATAACATCTACCCTCACGGAATCACTGATGTCCGTCCTTTGTATTCAAGGAGATTACCAAAA**



8/13

TGACTGTAGAAGATGGGCCAACTAAATCAGATCCTCGGTGCCTGACCCGCTATTACTCTAGTTT CGTTAATATGGAGAGAGATCTAGCTTCAGGACTCATTGGCCCTCTCCTCATCTGCTACAAAGAA TTGATGAGAACCGAAGCTGGTACCTCACAGAGAATATACAACGCTTTCTCCCCAATCCAGCTGG AGTGCAGCTTGAGGATCCAGAGTTCCAAGCCTCCAACATCATGCACAGCATCAATGGCTATGTT TTTGATAGTTTGCAGTTGTCAGTTTGTTTGCATGAGGTGGCATACTGGTACATTCTAAGCATTG GAGCACAGACTGACTTCCTTTCTGTCTTCTCTGGATATACCTTCAAACACAAAATGGTCTA TGAAGACACTCACCCTATTCCCATTCTCAGGAGAAACTGTCTTCATGTCGATGGAAAACCCA GGTCTATGGATTCTGGGGTGCCACAACTCAGACTTTCGGAACAGAGGCATGACCGCCTTACTGA AGGTTTCTAGTTGTGACAAGAACACTGGTGATTATTACGAGGACAGTTATGAAGATATTTCAGC ATACTTGCTGAGTAAAACAATGCCATTGAACCTAGGAGCTTCTCTCAGAATCCACCAGTCTTG ATGATACCATATCAGTTGAAATGAAGAAGAAGATTTTGACATTTATGATGAGGATGAAAATCA GAGCCCCGCAGCTTTCAAAAGAAAACACGACACTATTTTATTGCTGCAGTGGAGAGGCTCTGG GATTATGGGATGAGTAGCTCCCCACATGTTCTAAGAAACAGGGCTCAGAGTGGCAGTGTCCCTC AGTTCAAGAAGTTGTTTTCCAGGAATTTACTGATGGCTCCTTTACTCAGCCCTTATACCGTGG AGAACTAAATGAACATTTGGGACTCCTGGGGCCATATATAAGAGCAGAAGTTGAAGATAATATC ATGGTAACTTTCAGAAATCAGGCCTCTCGTCCCTATTCCTTCTATTCTAGCCTTATTTCTTATG AGGAAGATCAGAGGCAAGGAGCAGAACCTAGAAAAAACTTTGTCAAGCCTAATGAAACCAAAAC TTACTTTTGGAAAGTGCAACATCATATGGCACCACTAAAGATGAGTTTGACTGCAAAGCCTGG GCTTATTTCTCTGATGTTGACCTGGAAAAAGATGTGCACTCAGGCCTGATTGGACCCCTTCTGG AGGGCTCCCTGCAATATCCAGATGGAAGATCCCACTTTTAAAGAGAATTATCGCTTCCATGCAA TCAATGGCTACATAATGGATACACTACCTGGCTTAGTAATGGCTCAGGATCAAAGGATTCGATG **ACTGTACGAAAAAAGAGGAGTATAAAATGGCACTGTACAATCTCTATCCAGGTGTTTTTTGAGA** CAGTGGAAATGTTACCATCCAAAGCTGGAATTTGGCGGGTGGAATGCCTTATTGGCGAGCATCT ACATGCTGGGATGAGCACACTTTTTCTGGTGTACAGCAATAAGTGTCAGACTCCCCTGGGAATG GCTTCTGGACACATTAGAGATTTTCAGATTACAGCTTCAGGACAATATGGACAGTGGGCCCCAA AGCTGGCCAGACTTCATTATTCCGGATCAATCAATGCCTGGAGCACCAAGGAGCCCTTTTCTTG **GATCAAGGTGGATCTGTTGGCACCAATGATTATTCACGGCATCAAGACCCAGGGTGCCCGTCAG AAGTTCTCCAGCCTCTACATCTCTCAGTTTATCATCATGTATAGTCTTGATGGGAAGAAGTGGC** AGACTTATCGAGGAAATTCCACTGGAACCTTAATGGTCTTCTTTGGCAATGTGGATTCATCTGG **GATAAAACACAATATTTTTAACCCTCCAATTATTGCTCGATACATCCGTTTGCACCCAACTCAT** TATAGCATTCGCAGCACTCTTCGCATGGAGTTGATGGGCTGTGATTTAAATAGTTGCAGCATGC CATTGGGAATGGAGAGTAAAGCAATATCAGATGCACAGATTACTGCTTCATCCTACTTTACCAA TATGTTTGCCACCTGGTCTCCTTCAAAAGCTCGACTTCACCTCCAAGGGAGGAGTAATGCCTGG **AGACCTCAGGTGAATAATCCAAAAGAGTGGCTGCAAGTGGACTTCCAGAAGACAATGAAAGTCA** CTCCAGCAGTCAAGATGGCCATCAGTGGACTCTCTTTTTTCAGAATGGCAAAGTAAAGGTTTTT CAGGGAAATCAAGACTCCTTCACACCTGTGGTGAACTCTCTAGACCCACCGTTACTGACTCGCT **ACCTTCGAATTCACCCCCAGAGTTGGGTGCACCAGATTGCCCTGAGGATGGAGGTTCTGGGCTGC** GAGGCACAGGACCTCTACTGA

9/13

atttaaagctctaaggtaaatataaaatttttaagtgtataatgtgttaaactactgattctaa TTGTTTGTGTATTTTAGATTCCAACCTATGGAACTGATGAATGGGAGCAGTGGTGGAATGCCTT TAATGAGGAAAACCTGTTTTGCTCAGAAGAAATGCCATCTAGTGATGATGAGGCTACTGCTGAG TGTGAACATTCTACTCCTCCAAAAAAGAAGAGAAAGGTAGAAGACCCCAAGGACTTTCCTTCAG CACCACAAAGGAAAAAGCTGCACTGCTATACAAGAAAATTATGGAAAAAATATTCTGTAACCTTT **ATAAGTAGGCATAACAGTTATAATCATAACATACTGTTTTTTCTTACTCCACACAGGCATAGAG** TGTCTGCTATTAATAACTATGCTCAAAAATTGTGTACCTTTAGCTTTTTAATTTGTAAAGGGGT TAATAAGGAATATTTGATGTATAGTGCCTTGACTAGAGATCATAATCAGCCATACCACATTTGT AGAGGTTTTACTTGCTTTAAAAAACCTCCCACACCTCCCCTGAACCTGAAACATAAAATGAAT GCAATTGTTGTTGAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCA CAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAA TGTATCTTATCATGTCTGGATCCTCTACGCCGGACGCATCGTGGCCGGCATCACCGGCGCCACA GGTGCGGTTGCTGGCGCCTATATCGCCGACATCACCGATGGGGAAGATCGGGCTCGCCACTTCG GGCTCATGAGCGCTTGTTTCGGCGTGGGTATGGTGGCAGGCCCGTGGCCGGGGGACTGTTGGGC GCCATCTCCTTGCATGCACCATTCCTTGCGGCGGCGGTGCTCAACGGCCTCAACCTACTACTGG GCTGCTTCCTAATGCAGGAGTCGCATAAGGGAGAGCGTCGAAATTCTCATGTTTGACAGCTTAT CATCGGCGCAGCACCATGGCCTGAAATAACCTCTGAAAGAGGAACTTGGTTAGGTACCTTCTGA GGCGGAAAGAACCAGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTGGGGAG CAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGG CTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCC CTAACTCCGCCCATCCCGCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGAC TAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGCCGTAGTG AGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTTCACGCTGCCGCAAGCACTCAGGGC GCAAGGGCTGCTAAAGGAAGCGGAACACGTAGAAAGCCAGTCCGCAGAAACGGTGCTGACCCCG GATGAATGTCAGCTACTGGGCTATCTGGACAAGGGAAAACGCAAGCGCAAAGAGAAAAGCAGGTA GCTTGCAGTGGGCTTACATGGCGATAGCTAGACTGGGCGGTTTTATGGACAGCAAGCGAACCGG **AATTGCCAGCTGGGGCGCCCTCTGGTAAGGTTGGGAAGCCCTGCAAAGTAAACTGGATGGCTTT** CTTGCCGCCAAGGATCTGATGGCGCAGGGGATCAAGATCTGATCAAGAGACAGGATGAGGATCG TTTCGCATGATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTAT TCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTCAGC GAGGCAGCGCGCTATCGTGGCTGGCCACGACGGCGTTCCTTGCGCAGCTGTGCTCGACGTTG TCACTGAAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATC TCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTT TGGAAGCCGGTCTTGTCGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGA ACTGTTCGCCAGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGAT GCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGC TGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGG CGGCGAATGGGCTGACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCGCATC AGCGACGCCCAACCTGCCATCACGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGC TTCGGAATCGTTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGT TCTTCGCCCACCCCGGGCTCGATCCCCTCGCGAGTTGGTTCAGCTGCTGCCTGAGGCTGGACGA CCTCGCGGAGTTCTACCGGCAGTGCAAATCCGTCGGCATCCAGGAAACCAGCAGCGGCTATCCG CGCATCCATGCCCCGAACTGCAGGAGTGGGGAGGCACGATGGCCGCTTTGGTCCCGGATCTTT ATTTTAGATTCCAACCTATGGAACTGATGAATGGGAGCAGTGGTGGAATGCCTTTAATGAGGAA **AACCTGTTTTGCTCAGAAGAAATGCCATCTAGTGATGATGAGGCTACTGCTGACTCTCAACATT** CTACTCCTCCAAAAAGAAGAGAAAGGTAGAAGACCCCAAGGACTTTCCTTCAGAATTGCTAAG GAAAAAGCTGCACTGCTATACAAGAAAATTATGGAAAAATATTCTGTAACCTTTATAAGTAGGC **ATAACAGTTATAATCATAACATACTGTTTTTTTTTACTCCACACAGGCATAGAGTGTCTGCTAT** TAATAACTATGCTCAAAAATTGTGTACCTTTAGCTTTTTAATTTGTAAAGGGGTTAATAAGGAA

10/13

TATTTGATGTATAGTGCCTTGACTAGAGATCATAATCAGCCATACCACATTTGTAGAGGTTTTA TTGTTAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCAC **AAATAAAGCATTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATG**GTATCTTA TCATGTCTGGATCTCGACCGAGCCCTTGAGAGCCTTCAACCCAGTCAGCTCCTTCCGGTGGGCG CGGGGCATGACTATCGTCGCCGCACTTATGACTGTCTTCTTTATCATGCAACTCGTAGGACAGG TGCCGGCAGCGCTCTGGGTCATTTTCGGCGAGGACCGCTTTCGCTGGAGCGCGACGATGATCGG CCTGTCGCTTGCGGTATTCGGAATCTTGCACGCCCTCGCTCAAGCCTTCGTCACTGGTCCCGCC ACCAAACGTTTCGGCGAGAAGCAGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTACG TCTTGCTGGCGTTCGCGACGCGAGGCTGGATGGCCTTCCCCATTATGATTCTTCTCGCTTCCGG CAGCTTCAAGGATCGCTCGCGGCTCTTACCAGCCTAACTTCGATCACTGGACCGCTGATCGTCA CGGCGATTTATGCCGCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTGTAGGCGCCGCCCT **ATACCTTGTCTGCCTCCCCGCGTTGCGTCGCGGTGCATGGAGCCGGGCCACCTCGACCTGAATG** GAGAACTGTGAATGCGCAAACCAACCCTTGGCAGAACATATCCATCGCGTCCGCCATCTCCAGC **AGCCGCACGCGCGCATCTCGGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCCTGAC** GAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACC **AGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATA** CCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCAATGCTCACGCTGTACCTATCTC AGTTCGGTGTACCTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACC GCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACT GGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTG **AAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGC** TGGTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTG **ATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGA GATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAA**TCAATCTA **AAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCA** GCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATAC GGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCC **AGATTTATCAGCAATAAACCAGCCAGCCAGAAGGGCCCAGCCGCAGAAGTGGTCCTGCAACTTTA** GTTTGCGCAACGTTGTTGCCATTGCTGCAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGC TTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAA TGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGAC TGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCG GCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAAC GTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCAC TCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACA GGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCT TCCTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGA **ATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGAC GTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTC GTCTTCAA**



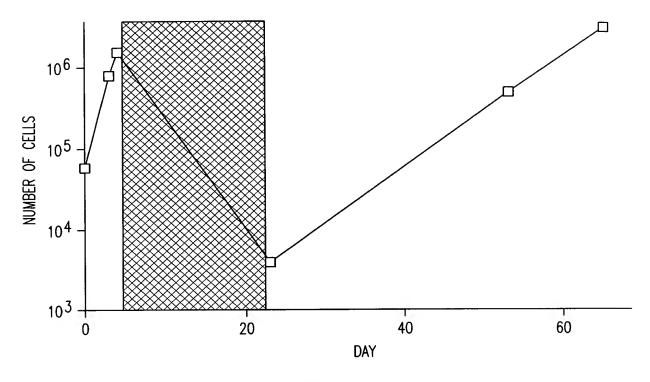
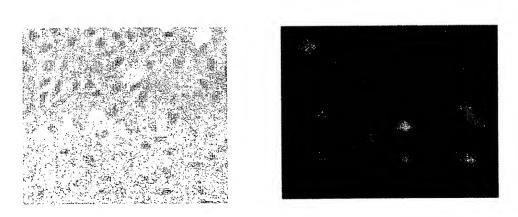


FIG. 5A



MORPHOLOGY & FLUORESCENCE OF PLE9 TRANSDUCED CELLS AT DAY 53

FIG. 5B



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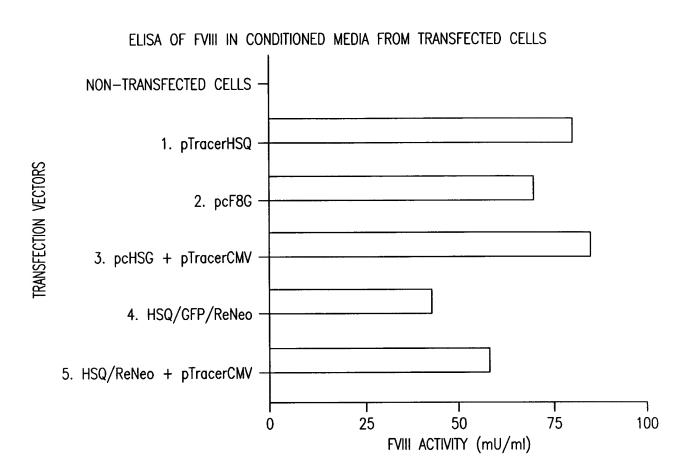


FIG. 6





